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EXAMINER				
MURRAY, DANIEL C				
ART UNIT		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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patentdocket@oblon.com
oblonpat@oblon.com
jgardner@oblon.com

Office Action Summary

Application No.

10/584,753

Applicant(s)

ISE ET AL.

Examiner

DANIEL C. MURRAY

Art Unit

2443

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SF/ICE)
Paper No(s)/Mail Date 27JUN2006, 15NOV2006
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/584753, filed on 27JUN2006.

Information Disclosure Statement

2. The information disclosure statements submitted on 27JUN2006 and 15NOV2006 have been considered by the Examiner and made of record in the application.

Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which Applicant may become aware in the specification.

Claim Objections

4. **Claims 15 and 16** are objected to because of the following informalities:
 - **Claims 15 and 16** contain acronyms which are not spelled out the first time they are used within a particular group of claims.Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(c), (f) or (g) prior art under 35 U.S.C. 103(a).

8. **Claims 1-3, 6-8, 10-14, and 16-19** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hild et al (US Patent # US 6,532,368 B1)** in view of **Zelig et al. (US Patent Publication # US 2002/0110087 A1)**.

a) Consider **claim 1**, Hild et al. clearly show and disclose, an information processing server that communicates with a terminal device connected to a first network and is connected to a second network different from the first network, comprising: a reception unit configured to receive a broadcast or multicast packet output from one or more service providing servers on the first network (figure 1, figure 3, abstract, column 4 lines 62-67, column 5 lines 1-4); a server finding unit configured to find service providing servers on the first network and services provided by the service providing servers, based on the received broadcasts or multicast packets (abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47); and a notification unit configured to notify the terminal device of the services found, via the tunnel or the second network (abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47). However, Hild et al. does not specifically disclose a tunnel setter configured to set a tunnel with the terminal device; receiving packets via a tunnel; or a data communication unit configured to be responsive to an execution request of the service from the terminal device via the tunnel or the second network to conduct data communication concerning the service with a service providing server providing the service via the second network.

Zelig et al. show and disclose establishing a data link service connection for a bi-directional service to be provided between first and second nodes through a network, wherein a tunnel setter configured to set a tunnel with the terminal device (abstract, paragraph [0014], [0052] lines 6-8, [0053] lines 11-26); receiving packets via a tunnel (abstract, paragraph [0014], [0018]); and a data communication unit configured to be responsive to an execution request of the service from the terminal device via the tunnel or the second network to conduct data communication concerning the service with a service providing server providing the service via the second network (abstract, paragraph [0014], [0018]).

One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Zelig et al. and Hild et al. since both concern communication services offered in a communication network and as such, both are within the same environment.

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate establishing and communicating via tunnel, as taught by Zelig et al. into the system of Hild et al. for the purpose of establishing a communication path (Zelig; abstract), thereby allowing communication between nodes.

b) Consider **claim 2**, and **as applied to claim 1 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 1, wherein the data communication unit transmits a result of the data communication via the tunnel or the second network to the terminal device (Zelig; abstract, paragraph [0014], [0018], [0055], [0056]).

c) Consider **claim 3**, and **as applied to claim 1 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, 3. The information processing server according to claim 1, wherein the notification unit notifies the terminal device of identifiers of the service providing servers found by the server finding unit via the tunnel or the second network (Hild; abstract, column 5 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), upon receiving an execution request of the service provided by the service providing server having the identifier (Zelig; abstract, paragraph [0014], [0018]), the data communication unit conducts data communication concerning the service with the service providing server having the identifier (Zelig; abstract, paragraph [0014], [0018], [0055], [0056]).

d) Consider **claim 6**, and **as applied to claim 1 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 1, wherein the service finding unit finds an image output apparatus as the service providing server (Hild; column 7

lines 62-65, column 8 lines 1-2), and the data communication unit transmits data transmitted from the terminal device via the tunnel or the second network to the image output apparatus via the second network (Hild; column 7 lines 62-65, column 8 lines 1-2).

e) Consider **claim 7**, and **as applied to claim 6 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 6, wherein the image output apparatus is a printer (Hild; column 7 lines 62-65, column 8 lines 1-2).

f) Consider **claim 8**, and **as applied to claim 1 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 1, wherein the server finding unit transmits a broadcast or multicast packet for finding service providing servers on the first network via the tunnel to cause the terminal device to flow the broadcast or multicast packet onto the first network (Hild; abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), receives response packets to the transmitted broadcast or multicast packet via the tunnel (Hild; abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), and finds service providing servers on the first network and services provided by the service providing servers, on the basis of the received response packets (Hild; abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47).

g) Consider **claim 10**, and **as applied to claim 1 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 1, wherein the tunnel setter sets the tunnel by using L2TP (Layer 2 Tunneling Protocol), PPTP (Point-to-Point Tunneling Protocol) or MPLS (Multi-Protocol Label Switching)(Zelig; paragraph [0003], [0014], [0052]).

h) Consider **claim 11**, Hild et al. clearly show and disclose, a remote control system including a terminal device connected to a first network and an information processing server connected to a second network, wherein the terminal device comprises: a transfer unit configured to receive a broadcast or multicast packet output from one or more service providing servers on the first network and transmits the received broadcast or multicast packets to the information processing server, and the information processing server comprises: a reception unit configured to receive the broadcast or multicast packets from the terminal device; a server finding unit configured to find service providing servers on the first network and services provided by the service providing servers, based on the received broadcast or multicast packets; and a notification unit configured to notify the terminal device of the services found, via the tunnel or the second network.

However, Hild et al. does not specifically disclose a first tunnel setter configured to set a tunnel with the information processing server; transmitting packets via a tunnel; a second tunnel setter configured to set the tunnel with the terminal device; receiving packets via a tunnel; and a data communication unit configured to be responsive to an execution request of the service from the terminal device via the tunnel or the second network to conduct data communication concerning the service with a service providing server providing the service via the second network.

Zelig et al. show and disclose establishing a data link service connection for a bi-directional service to be provided between first and second nodes through a network, wherein a first tunnel setter configured to set a tunnel with the information processing server (abstract, paragraph [0014], [0052] lines 6-8, [0053] lines 11-26); transmitting packets via a tunnel (abstract, paragraph [0014], [0018]); a second tunnel setter configured to set the tunnel with the terminal device (abstract, paragraph [0014], [0052] lines 6-8, [0053] lines 11-26); receiving packets via a tunnel (abstract, paragraph [0014], [0018]); and a data communication unit configured to be responsive to an

execution request of the service from the terminal device via the tunnel or the second network to conduct data communication concerning the service with a service providing server providing the service via the second network (abstract, paragraph [0014], [0018]).

One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Zelig et al. and Hild et al. since both concern communication services offered in a communication network and as such, both are within the same environment.

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate establishing and communicating via tunnel, as taught by, Zelig et al. into the system of Hild et al. for the purpose of establishing a communication path (Zelig; abstract), thereby allowing communication between nodes.

i) Consider **claim 12**, and **as applied to claim 11 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control system according to claim 11, wherein the data communication unit transmits a result of the data communication to the terminal device via the tunnel or the second network (Zelig; abstract, paragraph [0014], [0018], [0055], [0056]).

j) Consider **claim 13**, and **as applied to claim 11 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control system according to claim 11, wherein the notification unit notifies the terminal device of identifiers of the service providing servers found by the server finding unit via the tunnel or the second network (Hild; abstract, column 5 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), and upon receiving an execution request of the service provided by the service providing server having the identifier (Zelig; abstract, paragraph [0014], [0018]), the data communication unit conducts data communication concerning the service with the service providing server having the identifier (Zelig; abstract, paragraph [0014], [0018], [0055], [0056]).

k) Consider **claim 14**, and **as applied to claim 11 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control system according to claim 11, wherein the server finding unit in the information processing server transmits a broadcast or multicast packet for finding service providing servers on the first network to the terminal device via the tunnel, the transfer unit in the terminal device outputs the broadcast or multicast packet received from the server finding unit, onto the first network, receives response packets to the output broadcast or multicast packet (Hild; abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), and transmits the received response packets to the server finding unit via the tunnel (Hild; abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), and the server finding unit finds service providing servers on the first network and service provided by the service providing servers, on the basis of the response packets received from the transfer unit (Hild; abstract, column 4 lines 62-67, column 5 lines 1-12 lines 39-42, column 7 lines 45-61, column 8 lines 33-47).

l) Consider **claim 16**, and **as applied to claim 11 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control system according to claim 11, wherein the first and second tunnel setters set the tunnel by using L2TP, PPTP or MPLS (Zelig; paragraph [0003], [0014], [0052]).

m) Consider **claim 17**, Hild et al. clearly show and disclose, a remote control method using a terminal device connected to a first network and an information processing server connected to a second network, comprising: transmitting a broadcast or multicast packet output from one or more service providing servers on the first network to the information processing server to cause the information processing server to find the service providing servers and services provided by the service providing servers; notifying the terminal device of the services found, from the information

processing server via the tunnel or the second network. However, Hild et al. does not specifically disclose setting a tunnel between the terminal device and the information processing server; transmitting packets via a tunnel; or if execution request of the service is received by the information processing server from the terminal device via the tunnel or the second network, conducting data communication concerning the service between a service providing server providing the service and the information processing server, via the second network.

Zelig et al. show and disclose establishing a data link service connection for a bi-directional service to be provided between first and second nodes through a network, wherein setting a tunnel between the terminal device and the information processing server (abstract, paragraph [0014], [0052] lines 6-8, [0053] lines 11-26); transmitting packets via a tunnel (abstract, paragraph [0014], [0018]); and if execution request of the service is received by the information processing server from the terminal device via the tunnel or the second network, conducting data communication concerning the service between a service providing server providing the service and the information processing server, via the second network (abstract, paragraph [0014], [0018]).

One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Zelig et al. and Hild et al. since both concern communication services offered in a communication network and as such, both are with in the same environment.

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate establishing and communicating via tunnel, as taught by, Zelig et al. into the system of Hild et al. for the purpose of establishing a communication path (Zelig, abstract), thereby allowing communication between nodes.

n) Consider **claim 18**, and **as applied to claim 17 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control method according to claim 17, further comprising

transmitting a result of the data communication from the information processing server to the terminal device via the tunnel or the second network (Zelig; abstract, paragraph [0014], [0018], [0055], [0056]).

o) Consider **claim 19**, and **as applied to claim 17 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control method according to claim 17, further comprising: notifying the terminal device of identifiers of the service providing servers via the tunnel or the second network from the information processing server (Hild; abstract, column 5 lines 39-42, column 7 lines 45-61, column 8 lines 33-47), and if execution request of the service provided by the service providing server having the identifier is received by the information processing server (Zelig; abstract, paragraph [0014], [0018]), conducting data communication concerning the service between the service providing server having the identifier and the information processing server (Zelig; abstract, , paragraph [0014], [0018], [0055], [0056]).

9. **Claims 4 and 5** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hild et al (US Patent # US 6,532,368 B1)** in view of **Zelig et al. (US Patent Publication # US 2002/0110087 A1)** in further view of **Lee et al. (US Patent Publication # US 2003/0018751 A1)**.

a) Consider **claim 4**, and **as applied to claim 3 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 3. However, Hild et al. as modified by Zelig et al. does not specifically disclose the service finding unit finds a contents providing server as the service providing server, the notification unit notifies the terminal device of identifiers of contents provided by the contents providing server via the tunnel or the second network, and upon being requested to provide contents having the identifier from the terminal device via the tunnel or the second network, the data communication unit acquires the contents

having the identifier from the contents providing server via the second network and transmits the acquired contents to the terminal device via the tunnel or the second network.

Lee et al. show and disclose to a contents downloading system and a method of downloading the contents a user wants to a detachable media device through a communication network, wherein the service finding unit finds a contents providing server as the service providing server (abstract, [0012]), the notification unit notifies the terminal device of identifiers of contents provided by the contents providing server via the tunnel or the second network, and upon being requested to provide contents having the identifier from the terminal device via the tunnel or the second network (paragraph [0012], [0018], [0024], [0037]), the data communication unit acquires the contents having the identifier from the contents providing server via the second network and transmits the acquired contents to the terminal device via the tunnel or the second network (abstract, paragraph [0018]).

One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Lee et al. and Hild et al. as modified by Zelig et al. since both concern locating/using remote services and as such, both are with in the same environment.

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate locating a content server and downloading the requested content, as taught by, Lee et al. into the system of Hild et al. as modified by Zelig et al. for the purpose of allowing a user to obtain content from the content server (Lee; abstract), thereby allowing the user to store the content locally.

b) Consider **claim 5**, and as **applied to claim 4 above**, Hild et al. as modified by Zelig et al. as modified by Lee et al. clearly show and disclose, the information processing server according to

claim 4, wherein the data communication unit acquires still picture data, video data (Lee; paragraph [0005], [0012]), voice data or document data as the contents.

10. **Claims 9 and 15** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Hild et al (US Patent # US 6,532,368 B1)** in view of **Zelig et al. (US Patent Publication # US 2002/0110087 A1)** in further view of **Park et al. (US Patent Publication # US 2005/0175020 A1)**.

a) Consider **claim 9**, and as **applied to claim 8 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the information processing server according to claim 8. However, Hild et al. as modified by Zelig et al. does not specifically disclose an IP address acquisition unit configured to acquire an IP address of the first network, wherein a DHCP (Dynamic Host Configuration Protocol) server is connected to the first network, the IP address acquisition unit acquires the IP address of the first network by communicating with the DHCP server via the tunnel, and the server finding unit uses the acquired IP address as an address of a transmission source of the broadcast or multicast packet to be transmitted to the terminal device.

Park et al. show and disclose a tunneling service enabling data communications between communication networks, and more particularly, to a tunneling service method and system enabling data communications between a client node having an IPv4/6 (Internet Protocol version 4/6) dual stack and a client node in a different network, wherein an IP address acquisition unit configured to acquire an IP address of the first network, wherein a DHCP (Dynamic Host Configuration Protocol) server is connected to the first network (abstract, paragraph [0013]), the IP address acquisition unit acquires the IP address of the first network by communicating with the DHCP server via the tunnel (abstract, paragraph [0013]), and the server finding unit uses the acquired IP

address as an address of a transmission source of the broadcast or multicast packet to be transmitted to the terminal device (abstract, paragraph [0013]).

One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Park et al. and Hild et al. as modified by Zelig et al. since both concern enabling communication between network using a tunneling service and as such, both are with in the same environment.

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate DHCP service, as taught by, Park et al. into the system of Hild et al. as modified by Zelig et al. for the purpose of assigning IP addresses (Park; abstract), thereby allowing devices to communicate.

b) Consider **claim 15**, and **as applied to claim 14 above**, Hild et al. as modified by Zelig et al. clearly show and disclose, the remote control system according to claim 14. However, Hild et al. as modified by Zelig et al. does not specifically disclose a DHCP server is connected to the first network, the information processing server further comprises an IP address acquisition unit configured to acquire an IP address of the first network by communicating with the DHCP server via the tunnel, and the server finding unit uses the IP address acquired by the IP address acquisition unit as an address of a transmission source of the broadcast or multicast packet to be transmitted to the terminal device.

Park et al. show and disclose a tunneling service enabling data communications between communication networks, and more particularly, to a tunneling service method and system enabling data communications between a client node having an IPv4/6 (Internet Protocol version 4/6) dual stack and a client node in a different network, wherein an IP address acquisition unit configured to acquire an IP address of the first network, wherein a DHCP server is connected to the first network

(abstract, paragraph [0013]), the information processing server further comprises an IP address acquisition unit configured to acquire an IP address of the first network by communicating with the DHCP server via the tunnel (abstract, paragraph [0013]), and the server finding unit uses the IP address acquired by the IP address acquisition unit as an address of a transmission source of the broadcast or multicast packet to be transmitted to the terminal device (abstract, paragraph [0013]).

One of ordinary skill in the art at the time the invention was made would have been motivated to combine the teachings of Park et al. and Hild et al. as modified by Zelig et al. since both concern enabling communication between network using a tunneling service and as such, both are with in the same environment.

Therefore, it would have been obvious to one of ordinary skill in the art that the time the invention was made to incorporate DHCP service, as taught by, Park et al. into the system of Hild et al. as modified by Zelig et al. for the purpose of assigning IP addresses (Park; abstract), thereby allowing devices to communicate.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- | | | |
|----------------------|----------------------|----------------------|
| ➤ US 2001/0029531 A1 | ➤ US 6,377,982 B1 | ➤ US 2004/0218535 A1 |
| ➤ US 7,426,393 B2 | ➤ US 6,393,482 B1 | ➤ US 6,973,057 B1 |
| ➤ US 7,085,807 B2 | ➤ US 6,400,722 B1 | ➤ US 2006/0133405 A1 |
| ➤ US 6,961,560 B2 | ➤ US 2004/0030743 A1 | ➤ US 7,263,345 B2 |
| ➤ US 2004/0006708 A1 | ➤ US 2004/0133679 A1 | ➤ US 7,412,518 B1 |
| ➤ 6,115,137 | ➤ US 6,765,881 B1 | ➤ US 7,492,777 B2 |

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL C. MURRAY whose telephone number is 571-270-1773. The examiner can normally be reached on Monday - Friday 0800-1700 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger can be reached on (571)-272-4170. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DCM/
Examiner, Art Unit 2443

/Tonia LM Dollinger/
Supervisory Patent Examiner, Art Unit 2443